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ICE YACHTS.

How to Make and Sail Them

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By CHARLES LEONARD NORTON

So far as heard from, the entire human family, with a few unimportant exceptions, love to go fast. The exceptions are mostly elderly females of a timid disposition and young men with narrow shoulders and an introspective cast of mind. Even the exceptional persons referred to probably have one sense of speed in a latent form, a

there is no telling when they may, under favorable conditions, develop a love of

[illegible]

But F, as soon as she gets way on her, increases the pressure of the wind on sails and goes still faster, and again faster. Yet.

You have seen a boy with a whirligig the end of a stick. He holds in toward the wind, and it revolves. He walks diagonally

ly about the wind, and the boat's speed. When I reason about it, it really seems to me that she might be able to do it. But I don't know the cause, and in light of fact I can't possibly to demonstrate mathematically that it is possible. I can only say that the conditions will sail infinitely fast in the direction except dead to windward and in the direction of the wind.

The perfect yacht and the perfect conditions are never forthcoming in this world. The perfect conditions are never attained to a degree of speed four or five times greater than that of the driving wind. The perfect yacht is never built. The perfect sailor and Shrewsbury flyers to go over the time needed courses at the rate of a mile in a minute.

There are a great many people who have no idea of what an ice yacht is like, excepting the simplest possible description.

Boat together two pieces of joist in form of a cross, A B and C D, A B cast timber, C D spruce timber. Bolt on two "side rails," D B and C A. Across the angle near D under the line of the side rails, bolt a "center rail," A C, you may sit. Under A and B, the two ends of the center rail, bolt two "runner timbers," one at each end. Under the after end of the center timber at D. This last runner timber is bolted to the center timber, and is fitted with a "steering post," the ropes stays running to the mast.

are intended to sustain the sail, and to prevent it from blowing to leeward. The part of the center-trimward of the runner-pail is the bowsprit and upon it a foot or so of lead of the bowsprit is held upright by two stays made fast to the side rails in a little more than half the length of the bowsprit. It goes down to the end of the bowsprit at C. Such is the frame-work, and it means to fit a sail or sails to the mast. It is ordinary to have a single sail, but it is not unusual to have two or three. They are rigged precisely as a boat, but to secure the best results in planning and experiment is necessary. The builder can never tell exactly how a boat is going to behave until she is tested under sail.

In actual sailing the main sheet is always

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ductile high-tensile steel wires are used for the stays. Stays of steel wires are fitted with turn bucles instead of wooden side-rafts, and no expense is spared to make all the parts work together to the best advantage. In the comparatively simple construction indicated in the diagram, the stays are attached to the ends of the beams, and the tension of the stays being subject to tremendous pressure, would probably bend or break if made only of simple joist. It is, therefore, recommended to use two joists and let one pass above the other underneath the centre-trimmed spring, and make together and bolt to the frame. This will give a very stiff truss, and the ends of the side-rafts may rest between the joists, securing still greater strength for the frame.

When sailing in the neighborhood

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One of the genuine Parisian floral device of the holidays of the past was the composition of brown garlands bound up with scarlet ribbon. Here and there among the streamers were stuck bits of holly and delicate, tiny sprigs of holly leaves and berries. The garlands were made of those particular holly leaves which have a waxy, glistening, gummy luster, though popular were not burned. Another device was enamelled cases with the Greek garlands, in which some miniature bouquets were planted like trees, which was unsatisfactory, for the garlands were not made of those particular holly leaves which have a waxy, glistening, gummy luster, though popular were not burned. Another device was enamelled cases with the Greek garlands, in which some miniature bouquets were planted like trees, which was unsatisfactory, for the garlands were not made of those particular holly leaves which have a waxy, glistening, gummy luster, though popular were not burned. Another device was enamelled cases with the Greek garlands, in which some miniature bouquets were planted like trees, which was unsatisfactory, for the garlands were not made of those particular holly leaves which have a waxy, glistening, gummy luster, though popular were not burned.



amount of experience. It may be a ques-

of King CHARLES have not forgotten the

Revere her as a child.

he age of 79.

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